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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/825,778	(04/16/2004	Masataka Kawazoe	114929-005	8740	
43793	7590	09/20/2005		EXAM	EXAMINER	
EVEREST INTELLECTUAL PROPERTY LAW GROUP P. O. BOX 708 NORTHBROOK, IL 60065				ELVE, MARIA	ELVE, MARIA ALEXANDRA	
				ART UNIT	PAPER NUMBER	
	,			1725		

DATE MAILED: 09/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
	10/825,778	KAWAZOE ET AL.						
Office Action Summary	Examiner	Art Unit						
·	M. Alexandra Elve	1725						
The MAILING DATE of this communication ap	l i							
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING [2] - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timed will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nety filed the mailing date of this communication. D (35 U.S.C. § 133).						
Status								
1) Responsive to communication(s) filed on								
3) Since this application is in condition for allows	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4) Claim(s) 1-6 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1 and 3-6</u> is/are rejected.								
· · · · · · · · · · · · · · · · · · ·	Claim(s) <u>2</u> is/are objected to.							
8) Claim(s) are subject to restriction and/	or election requirement.							
Application Papers								
9)☐ The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on <u>16 April 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119	•							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s)	_							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summary Paper No(s)/Mail Da							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 4/16/04.		atent Application (PTO-152)						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 & 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Hill et al. (USPN 5,802,708).

Hill et al. discloses a copper and silver (16 at%) which is extruded.

Microstructures have grain sizes of about 1 um. The first extrusion is R=4. The final microstructure is on the order of 100 to 200 nm. During processing temperatures of 130 to 285 C are used. (abstract, figures, cols. 2-5)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hill as stated above and further in view of Bhargava (USPN 6,241,831).

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Hill does not teach an exact heat treatment range.

Bhargava discloses a copper alloy which contains silver (0.001 to 0.1 wt%) and iron (0.01 to 0.25 wt%). Annealing may occur at any point through the processing with temperatures ranging from about 370 C (700 F) to 650 C (1200 F). (abstract, col. 10)

It would have been obvious to one of ordinary skill in the art at the time of the invention to use heat treatment temperatures as taught by Bhargava in the Hill system because these are merely variations of common annealing heat treatment temperatures.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hill and Finlay et al. (USPN 3,778,318).

Hill does not teach the type of particles present.

Finlay et al. discloses a copper base composition for electrical components. The alloy contains P (0.002 to 4.25 wt%), Ag (0.02 to 0.2 wt%). One of the main intermetallics formed in the alloy is Cu₃P. The majority of these particles are less than one micron. (abstract, cols. 1-10)

It would have been obvious to one of ordinary skill in the art at the time of the invention to observe the presence of Cu₃P, as taught by Finlay et al. in the Hill system because these are merely standard precipitates in the copper alloy composition.

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Allowable Subject Matter

Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art does not teach a mean distance between particles of 200 nm or less.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See US PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Alexandra Elve whose telephone number is 571-272-1173. The examiner can normally be reached on 6:30-3:00 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 18, 2005.

M. Alexandra Elve

Primary Examiner 1725